

CLAIMS

I CLAIM:

1. A connector assembly for releasably connecting a pair of conduits, the assembly
5 comprising:
a first member having a nozzle, the first member adapted to be connected to one of
the conduits; and
a second member receiving the nozzle, the second member adapted to be connected
to the other of the conduits;
10 wherein the first member and second member have cooperative structure releasably
connecting the first and second members.
2. The assembly of claim 1, further comprised an anchor secured to the first member.
3. The assembly of claim 2, wherein the anchor can be releasably engaged with the
second member.
- 15 4. The assembly of claim 2, wherein the anchor is rotatable about the first member.
5. The assembly of claim 2, wherein the second member has at least one aperture, and
wherein at least a portion of the anchor releasably engages the aperture.
6. The assembly of claim 1, wherein at least one of the first or second members is made
of plastic.
- 20 7. A connector assembly for releasably connecting a pair of conduits, the assembly
comprising:
a first member having a nozzle, the first member adapted to be connected to one of
the conduits;
an anchor rotatably mounted on the first member; and
25 a second member receiving the nozzle, and the second member adapted to be
connected to the other of the conduits;
wherein the anchor and second member have cooperative structure releasably
connecting the first and second members.
8. The assembly of claim 7, wherein the anchor has at least one tab extending
30 therefrom.
9. The assembly of claim 8, wherein the second member has at least one aperture, and
wherein the tab releasably engages the aperture.
10. The assembly of claim 7, wherein the anchor has at least one resilient tab, or at least
one aperture, and wherein the second member has the other of at least one resilient tab or at
35 least one aperture, wherein the tab releasably engages the aperture.
11. The assembly of claim 9, wherein the second member has at least one flexible wing,
wherein a portion of the wing is movable towards the aperture to contact the tab.

12. A connector assembly for releasably connecting a pair of conduits, the assembly comprising:

a first member having a nozzle, the first member adapted to be connected to one of the conduits;

5 an anchor rotatably mounted on the first member, the anchor having at least one resilient tab extending therefrom;

a second member receiving the nozzle, wherein the second member has at least one aperture, the second member adapted to be connected to the other of the conduits;

10 wherein the tab engages the aperture to releasably connect the first and second members.

13. The assembly of claim 12, further comprising at least one flexible wing, wherein a portion of the wing is movable towards the aperture to engage the tab.

14. The assembly of claim 13, wherein the wing has a fixed end and a free end, wherein the fixed end is connected to the second member, and wherein the free end is positioned proximate to the aperture.

15. The assembly of claim 12, wherein the second member further has a collar, wherein the fixed end of the wing is connected to the collar.

16. The assembly of claim 15, wherein the collar is removably connected to the second member.

20 17. The assembly of claim 12, wherein at least one portion of the first member is threaded, and wherein the threaded portion is adapted to be connected to the first conduits.

18. The assembly of claim 12, wherein the second member includes a second nozzle adapted to be inserted into the second conduit.

19. The assembly of claim 14, wherein the second member has at least one slot.

25 20. The assembly of claim 19, wherein the anchor can be inserted into the second member only when the projection is aligned with the slot.

21. The assembly of claim 20 comprising two projections and two slots.

22. A connector assembly for releasably connecting a pair of conduits, the assembly comprising:

30 a first member having a nozzle, the nozzle having a groove, the first member adapted to be connected to one of the conduits;

an anchor rotatably mounted in the groove, the anchor having at least one resilient tab extending therefrom;

35 a second member having an opening that receives the nozzle in the first member, the second member further having at least one aperture, the second member adapted to be connected to the other of the conduits;

wherein the tab is moveable between an expanded position wherein a portion of the tab engages the aperture to connect the first and second members, and a compressed position wherein the tab is disengaged from the aperture permitting disconnection of the first and second members.

- 5 23. The assembly of claim 22, wherein the nozzle of the first member has at least one seal that, when the first and second members are connected, is positioned along the second member.
24. The assembly of claim 23, wherein the seal is an O-ring.
25. The assembly of claim 22, wherein the aperture is located in communication with the
10 opening.
26. The assembly of claim 22, wherein the second member has at least one slot.
27. The assembly of claim 26, wherein the slot extends between the opening and the aperture.
28. The assembly of claim 26, wherein the slot is cooperatively dimensioned with the
15 tab.
29. The assembly of claim 26, wherein the anchor can be inserted into the second member only when the tab is aligned with the slot.
30. The assembly of claim 29 comprising two tabs and two slots.
31. The assembly of claim 22, further comprising at least one flexible wing extending
20 from the second member, wherein at least a portion of the wing is in communication with the aperture.
32. The assembly of claim 31, wherein a portion of the wing is movable into the aperture to contact the tab to move the tab from the expanded position to the compressed position.
33. The assembly of claim 31, wherein the wing has a fixed end and a free end, wherein
25 the fixed end is connected to the second member, wherein the free end is proximate the aperture.
34. The assembly of claim 22, wherein at least one of the first or second member is made of plastic.
35. The assembly of claim 22, wherein a portion of the first member is threaded, wherein
30 the threaded portion is adapted to be connected to one of the conduits.
36. The assembly of claim 22, wherein the second member includes a second nozzle adapted to be inserted into the other of the conduits.